

# Anne M Villeneuve

## List of Publications by Year in descending order

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55  
papers

6,273  
citations

136950

32  
h-index

175258

52  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2816  
citing authors

#	ARTICLE	IF	CITATIONS
1	Meiotic Recombination in <i>C. elegans</i> Initiates by a Conserved Mechanism and Is Dispensable for Homologous Chromosome Synapsis. <i>Cell</i> , 1998, 94, 387-398.	28.9	747
2	Synaptonemal Complex Assembly in <i>C. elegans</i> Is Dispensable for Loading Strand-Exchange Proteins but Critical for Proper Completion of Recombination. <i>Developmental Cell</i> , 2003, 5, 463-474.	7.0	393
3	Synapsis-dependent and -independent mechanisms stabilize homolog pairing during meiotic prophase in <i>C. elegans</i> . <i>Genes and Development</i> , 2002, 16, 2428-2442.	5.9	359
4	Chromosome Sites Play Dual Roles to Establish Homologous Synapsis during Meiosis in <i>C. elegans</i> . <i>Cell</i> , 2005, 123, 1037-1050.	28.9	290
5	X-chromosome silencing in the germline of <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2002, 129, 479-492.	2.5	280
6	Whence Meiosis?. <i>Cell</i> , 2001, 106, 647-650.	28.9	238
7	COSA-1 Reveals Robust Homeostasis and Separable Licensing and Reinforcement Steps Governing Meiotic Crossovers. <i>Cell</i> , 2012, 149, 75-87.	28.9	231
8	<i>Caenorhabditis elegans</i> msh-5 Is Required for Both Normal and Radiation-Induced Meiotic Crossing Over but Not for Completion of Meiosis. <i>Genetics</i> , 2000, 156, 617-630.	2.9	228
9	Crossing Over During <i>Caenorhabditis elegans</i> Meiosis Requires a Conserved MutS-Based Pathway That Is Partially Dispensable in Budding Yeast. <i>Genetics</i> , 1999, 153, 1271-1283.	2.9	216
10	Differential timing of S phases, X chromosome replication, and meiotic prophase in the <i>C. elegans</i> germ line. <i>Developmental Biology</i> , 2007, 308, 206-221.	2.0	196
11	HTP-1-dependent constraints coordinate homolog pairing and synapsis and promote chiasma formation during <i>C. elegans</i> meiosis. <i>Genes and Development</i> , 2005, 19, 2727-2743.	5.9	186
12	X-chromosome silencing in the germline of <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2002, 129, 479-92.	2.5	181
13	Chromosome-Wide Control of Meiotic Crossing over in <i>C. elegans</i> . <i>Current Biology</i> , 2003, 13, 1641-1647.	3.9	170
14	Meiotic chromosome structures constrain and respond to designation of crossover sites. <i>Nature</i> , 2013, 502, 703-706.	27.8	154
15	<i>C. elegans</i> HIM-17 Links Chromatin Modification and Competence for Initiation of Meiotic Recombination. <i>Cell</i> , 2004, 118, 439-452.	28.9	142
16	Crossovers trigger a remodeling of meiotic chromosome axis composition that is linked to two-step loss of sister chromatid cohesion. <i>Genes and Development</i> , 2008, 22, 2886-2901.	5.9	141
17	Lateral microtubule bundles promote chromosome alignment during acentrosomal oocyte meiosis. <i>Nature Cell Biology</i> , 2009, 11, 839-844.	10.3	141
18	The <i>C. elegans</i> DSB-2 Protein Reveals a Regulatory Network that Controls Competence for Meiotic DSB Formation and Promotes Crossover Assurance. <i>PLoS Genetics</i> , 2013, 9, e1003674.	3.5	134

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19	Robust Crossover Assurance and Regulated Interhomolog Access Maintain Meiotic Crossover Number. <i>Science</i> , 2011, 334, 1286-1289.	12.6	118
20	Crossing over is coupled to late meiotic prophase bivalent differentiation through asymmetric disassembly of the SC. <i>Journal of Cell Biology</i> , 2005, 168, 683-689.	5.2	115
21	Identification of DSB-1, a Protein Required for Initiation of Meiotic Recombination in <i>Caenorhabditis elegans</i> , Illuminates a Crossover Assurance Checkpoint. <i>PLoS Genetics</i> , 2013, 9, e1003679.	3.5	113
22	<i>C. elegans</i> Germ Cells Switch between Distinct Modes of Double-Strand Break Repair During Meiotic Prophase Progression. <i>PLoS Genetics</i> , 2007, 3, e191.	3.5	112
23	Dynamic Architecture of DNA Repair Complexes and the Synaptonemal Complex at Sites of Meiotic Recombination. <i>Cell</i> , 2018, 173, 1678-1691.e16.	28.9	106
24	SYP-3 Restricts Synaptonemal Complex Assembly to Bridge Paired Chromosome Axes During Meiosis in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2007, 176, 2015-2025.	2.9	105
25	Differential Localization and Independent Acquisition of the H3K9me2 and H3K9me3 Chromatin Modifications in the <i>Caenorhabditis elegans</i> Adult Germ Line. <i>PLoS Genetics</i> , 2010, 6, e1000830.	3.5	101
26	Meiotic recombination modulates the structure and dynamics of the synaptonemal complex during <i>C. elegans</i> meiosis. <i>PLoS Genetics</i> , 2017, 13, e1006670.	3.5	97
27	Chromosome-Wide Regulation of Meiotic Crossover Formation in <i>Caenorhabditis elegans</i> Requires Properly Assembled Chromosome Axes. <i>Genetics</i> , 2004, 168, 1275-1292.	2.9	86
28	Synapsis-Defective Mutants Reveal a Correlation Between Chromosome Conformation and the Mode of Double-Strand Break Repair During <i>Caenorhabditis elegans</i> Meiosis. <i>Genetics</i> , 2007, 176, 2027-2033.	2.9	80
29	Mammalian CNTD1 is critical for meiotic crossover maturation and deselection of excess precrossover sites. <i>Journal of Cell Biology</i> , 2014, 205, 633-641.	5.2	80
30	The Synaptonemal Complex Shapes the Crossover Landscape Through Cooperative Assembly, Crossover Promotion and Crossover Inhibition During <i>Caenorhabditis elegans</i> Meiosis. <i>Genetics</i> , 2010, 186, 45-58.	2.9	74
31	Full-Length Synaptonemal Complex Grows Continuously during Meiotic Prophase in Budding Yeast. <i>PLoS Genetics</i> , 2012, 8, e1002993.	3.5	69
32	An Asymmetric Chromosome Pair Undergoes Synaptic Adjustment and Crossover Redistribution During <i>Caenorhabditis elegans</i> Meiosis: Implications for Sex Chromosome Evolution. <i>Genetics</i> , 2011, 187, 685-699.	2.9	45
33	Assembly of <i>Caenorhabditis elegans</i> acentrosomal spindles occurs without evident microtubule-organizing centers and requires microtubule sorting by KLP-18/kinesin-12 and MESP-1. <i>Molecular Biology of the Cell</i> , 2016, 27, 3122-3131.	2.1	43
34	HAL-2 Promotes Homologous Pairing during <i>Caenorhabditis elegans</i> Meiosis by Antagonizing Inhibitory Effects of Synaptonemal Complex Precursors. <i>PLoS Genetics</i> , 2012, 8, e1002880.	3.5	40
35	Assembly of the Synaptonemal Complex Is a Highly Temperature-Sensitive Process That Is Supported by PGL-1 During <i>Caenorhabditis elegans</i> Meiosis. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 585-595.	1.8	40
36	Quantitative cytogenetics reveals molecular stoichiometry and longitudinal organization of meiotic chromosome axes and loops. <i>PLoS Biology</i> , 2020, 18, e3000817.	5.6	36

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37	Chromosome Painting Reveals Asynaptic Full Alignment of Homologs and HIM-8â€œDependent Remodeling of X Chromosome Territories during <i>Caenorhabditis elegans</i> Meiosis. <i>PLoS Genetics</i> , 2011, 7, e1002231.	3.5	34
38	Chromosome Movements Promoted by the Mitochondrial Protein SPD-3 Are Required for Homology Search during <i>Caenorhabditis elegans</i> Meiosis. <i>PLoS Genetics</i> , 2013, 9, e1003497.	3.5	33
39	DNA Helicase HIM-6/BLM Both Promotes MutS <sup>3</sup> -Dependent Crossovers and Antagonizes MutS <sup>3</sup> -Independent Interhomolog Associations During <i>Caenorhabditis elegans</i> Meiosis. <i>Genetics</i> , 2014, 198, 193-207.	2.9	33
40	Separable Roles for a <i>Caenorhabditis elegans</i> RMI1 Homolog in Promoting and Antagonizing Meiotic Crossovers Ensure Faithful Chromosome Inheritance. <i>PLoS Biology</i> , 2016, 14, e1002412.	5.6	32
41	A Role for <i>Caenorhabditis elegans</i> Chromatin-Associated Protein HIM-17 in the Proliferation vs. Meiotic Entry Decision. <i>Genetics</i> , 2007, 175, 2029-2037.	2.9	31
42	Interdependent and separable functions of <i>Caenorhabditis elegans</i> MRN-C complex members couple formation and repair of meiotic DSBs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4443-E4452.	7.1	31
43	<i>Caenorhabditis elegans</i> DSB-3 reveals conservation and divergence among protein complexes promoting meiotic double-strand breaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	23
44	Time-Course Analysis of Early Meiotic Prophase Events Informs Mechanisms of Homolog Pairing and Synapsis in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2017, 207, 103-114.	2.9	20
45	A streamlined tethered chromosome conformation capture protocol. <i>BMC Genomics</i> , 2016, 17, 274.	2.8	17
46	Manipulation of Karyotype in <i>Caenorhabditis elegans</i> Reveals Multiple Inputs Driving Pairwise Chromosome Synapsis During Meiosis. <i>Genetics</i> , 2015, 201, 1363-1379.	2.9	15
47	Robust designation of meiotic crossover sites by CDK-2 through phosphorylation of the MutS <sup>3</sup> complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117865119.	7.1	14
48	Spatial Regulation of Polo-Like Kinase Activity During <i>Caenorhabditis elegans</i> Meiosis by the Nucleoplasmic HAL-2/HAL-3 Complex. <i>Genetics</i> , 2019, 213, 79-96.	2.9	12
49	Evidence That Masking of Synapsis Imperfections Counterbalances Quality Control to Promote Efficient Meiosis. <i>PLoS Genetics</i> , 2013, 9, e1003963.	3.5	11
50	DEVELOPMENT: How to Stimulate Your Partner. <i>Science</i> , 2001, 291, 2099-2101.	12.6	5
51	Ensuring an Exit Strategy: RTEL1 Restricts Rogue Recombination. <i>Cell</i> , 2008, 135, 213-215.	28.9	2
52	Suppression of by a transgene insertion expressing GFP::COSA-1. <i>MicroPublication Biology</i> , 2021, 2021, .	0.1	1
53	<i>C. elegans</i> germ cells switch between distinct modes of double-strand break repair during meiotic prophase progression. <i>PLoS Genetics</i> , 2005, preprint, e191.	3.5	0
54	me101 is a new allele of rad-51. <i>MicroPublication Biology</i> , 2019, 2019, .	0.1	0

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55	me98 is a new allele of rad-54. MicroPublication Biology, 2019, 2019, .	0.1	0